

ABSTRACT AMENDMENT

ABSTRACT OF THE DISCLOSURE

5 A method for embedding fiber optic sensors in a high melting temperature metal structure produces embedded sensors that are uniformly and closely bonded with the metal and do not slip upon metal expansion and contraction. The structure is built in layers onto the sensor. On top of a first thin sputter-coated metallic layer, approximately 1-3 μm thick, is electroplated a second thin layer, approximately 0.25-2 mm thick. Finally, a metal structure is built around the thin metallic layers by laser cladding, casting, welding, or other method.

10